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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/417,478
				Filing Date	October 13, 1999
				First Named Inventor	John McCafferty, et al.
				Group Art Unit	1639
				Examiner Name	Liu, Sue Xu
Sheet	1	of	18	Attorney Docket Number	05569.0004.DVUS07

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code ² (if known)			
	A1	4,704,692	11/03/1987	Ladner	
	A2	5,258,289	11/02/1993	Davis, et al.	
	A3	5,260,203	11/09/1993	Ladner, et al.	
	A4	5,534,617	07/09/1996	Cunningham, et al.	
	A5	5,567,610	10/22/1996	Borrebaeck, et al.	
	A6	5,580,717	12/03/1996	Dower, et al.	
	A7	5,698,426	12/16/1997	Huse	
	A8	5,780,225	07/14/1998	Wigler, et al.	
	A9	5,814,476	09/29/1998	Kauffman, et al.	
	A10	5,837,500	11/17/1998	Ladner, et al.	
	A11	5,840,479	11/24/1998	Little, et al.	
	A12	5,855,885	01/05/1999	Smith, et al.	
	A13	5,935,823	08/10/1999	Fowlkes, et al.	
	A14	5,948,635	09/07/1999	Kay, et al.	
	A15	5,955,358	09/21/1999	Huse	
	A16	6,172,197	01/09/2001	McCafferty, et al.	
	A17	6,555,313	04/29/2003	Griffiths, et al.	
	A18	6,582,915	06/24/2003	Griffiths, et al.	
	A19	6,593,081	07/15/2003	Griffiths, et al.	
	A20	7,195,866	03/27/2007	Griffiths, et al.	

U.S. PUBLICATION DOCUMENTS					
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				Examiner Name	Liu, Sue Xu
Sheet	2	of	18	Attorney Docket Number	05569.0004.DVUS07

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T276
		Country Code ³ —Number ⁴ —Kind Code ⁵ (if known)				
	B1	EP 436597 B1	04/02/1997	Protein Engineering Corporation		
	B2	GB 91/25579.4	02/12/1991	Cambridge Antibody Technology Ltd.		
	B3	GB 91/25582.8	02/12/1991	Cambridge Antibody Technology Ltd.		
	B4	WO 92-01047	01/23/1992	Cambridge Antibody Technology Ltd.		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	C1	U.S. Appl. No. 08/484,893 Advisory Action dated November 3, 1997	
	C2	U.S. Appl. No. 08/484,893 Final office action dated March 28, 1997	
	C3	U.S. Appl. No. 08/484,893 Non-final office action dated July 20, 1999	
	C4	U.S. Appl. No. 08/484,893 Non-Final office action dated June 17, 1996	
	C5	U.S. Appl. No. 08/484,893 Non-final office action dated June 9, 1998	
	C6	U.S. Appl. No. 08/484,893 Notice of Allowance dated March 29, 2000	
	C7	U.S. Appl. No. 08/484,893 Restriction Requirement dated December 7, 1998	
	C8	U.S. Appl. No. 09/196,522 Examiner's Amendment dated January 28, 2004	
	C9	U.S. Appl. No. 09/196,522 Restriction Requirement dated November 27, 1999	
	C10	U.S. Appl. No. 09/196,522 Non-final office action dated April 20, 2000	
	C11	U.S. Appl. No. 09/196,522 Non-final office action dated January 3, 2001	
	C12	U.S. Appl. No. 09/196,522 Notice of Allowance dated May 3, 2004	
	C13	U.S. Appl. No. 09/196,586 Final office action dated September 9, 2009	
	C14	U.S. Appl. No. 09/196,586 Advisory Action dated December 5, 2008	
	C15	U.S. Appl. No. 09/196,586 Advisory Action dated May 4, 2007	
	C16	U.S. Appl. No. 09/196,586 Final office action dated September 22, 2006	

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	C17	U.S. Appl. No. 09/196,586 Final office action dated April 17, 2001		
	C18	U.S. Appl. No. 09/196,586 Final office action dated December 22, 2004		
	C19	U.S. Appl. No. 09/196,586 Final office action dated September 15, 2008		
	C20	U.S. Appl. No. 09/196,586 Non final office action dated April 10, 2000		
	C21	U.S. Appl. No. 09/196,586 Non-final office action dated April 4, 2002		
	C22	U.S. Appl. No. 09/196,586 Non-final office action dated December 28, 2005		
	C23	U.S. Appl. No. 09/196,586 Non-Final office action dated January 9, 2008		
	C24	U.S. Appl. No. 09/196,586 Non-final office action dated May 19, 2004		
	C25	U.S. Appl. No. 09/196,586 Restriction Requirement dated December 21, 1999		
	C26	U.S. Appl. No. 09/196,673 Advisory Action dated November 6, 2002		
	C27	U.S. Appl. No. 09/196,673 Advisory Action dated March 24, 2003		
	C28	U.S. Appl. No. 09/196,673 Final office action dated December 22, 2004		
	C29	U.S. Appl. No. 09/196,673 Final office action dated May 14, 2002		
	C30	U.S. Appl. No. 09/196,673 Non-final office action dated April 11, 2000		
	C31	U.S. Appl. No. 09/196,673 Non-final office action dated January 18, 2001		
	C32	U.S. Appl. No. 09/196,673 Non-final office action dated March 4, 2004		
	C33	U.S. Appl. No. 09/196,673 Notice of Allowance dated November 3, 2005		
	C34	U.S. Appl. No. 09/196,673 Restriction Requirement dated December 21, 1999		
	C35	U.S. Appl. No. 09/309,639 Non-final office action dated January 3, 2001		
	C36	U.S. Appl. No. 09/309,639 Official communication dated August 22, 2003		
	C37	U.S. Appl. No. 09/309,639 Restriction Requirement dated September 1, 2000		
	C38	U.S. Appl. No. 09/416,902 Advisory Action dated September 6, 2006		
	C39	U.S. Appl. No. 09/416,902 Final office action dated March 10, 2006		
	C40	U.S. Appl. No. 09/416,902 Non-final office action dated July 28, 2005		
	C41	U.S. Appl. No. 09/416,902 Non-final office action dated August 16, 2007		
	C42	U.S. Appl. No. 09/416,902 Non-final office action dated February 3, 2009		
	C43	U.S. Appl. No. 09/416,902 Notice of Allowance dated September 14, 2009		
	C44	U.S. Appl. No. 09/416,902 Non-final office action dated September 19, 2008		
	C45	U.S. Appl. No. 09/416,902 Notice of Allowance dated February 4, 2008		
	C46	U.S. Appl. No. 09/416,902 Restriction Requirement dated September 18, 2000		
	C47	U.S. Appl. No. 09/417,479 Non-final office action dated May 3, 2006		
	C48	U.S. Appl. No. 09/417,479 Restriction Requirement dated June 26, 2000		
	C49	U.S. Appl. No. 09/706,507 Non-final office action dated May 5, 2006		

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				First Named Inventor	John McCafferty, et al.
				Group Art Unit	1639
				Examiner Name	Liu, Sue Xu
Sheet	4	of	18	Attorney Docket Number	05569.0004.DVUS07

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	C50	U.S. Appl. No. 09/706,507 Restriction Requirement dated May 21, 2001	
	C51	U.S. Appl. No. 09/726,219 Non-final office action dated August 12, 2003	
	C52	U.S. Appl. No. 09/726,219 Notice of Allowance dated February 25, 2004	
	C53	U.S. Appl. No. 09/726,219 Restriction Requirement dated March 12, 2003	
	C54	U.S. Appl. No. 07/971,857 Advisory Action dated August 15, 1996	
	C55	U.S. Appl. No. 07/971,857 Examiner's Interview Summary Record dated December 13, 1996	
	C56	U.S. Appl. No. 07/971,857 Examiner's Interview Summary Record dated April 24, 1997	
	C57	U.S. Appl. No. 07/971,857 Final office action dated April 23, 1996	
	C58	U.S. Appl. No. 07/971,857 Non-final office action dated June 30, 1995	
	C59	U.S. Appl. No. 07/971,857 Notice of Allowance dated July 23, 1997	
	C60	U.S. Appl. No. 07/971,857 Response to 312 Amendment dated April 20, 1999	
	C61	U.S. Appl. No. 10/803,622 Examiner's Interview Summary dated March 20, 2008	
	C62	U.S. Appl. No. 10/803,622 Advisory Action dated July 31, 2007	
	C63	U.S. Appl. No. 10/803,622 Final office action dated April 10, 2007	
	C64	U.S. Appl. No. 10/803,622 Advisory Action dated August 4, 2009	
	C65	U.S. Appl. No. 10/803,622 Final office action dated February 17, 2009	
	C66	U.S. Appl. No. 10/803,622 Non-final office action dated July 3, 2008	
	C67	U.S. Appl. No. 10/803,622 Non-final office action dated July 5, 2006	
	C68	U.S. Appl. No. 10/803,622 Non-final office action dated October 2, 2007	
	C69	U.S. Appl. No. 10/803,622 Restriction Requirement dated April 10, 2006	
	C70	U.S. Appl. No. 11/555,464 Non-final office action dated March 5, 2009	
	C71	U.S. Appl. No. 11/555,519 Non-final office action dated March 5, 2009	
	C72	U.S. Appl. No. 10/803,653 Advisory Action dated October 11, 2007	
	C73	U.S. Appl. No. 10/803,653 Final office action dated May 8, 2007	
	C74	U.S. Appl. No. 10/803,653 Final office action dated November 5, 2008	
	C75	U.S. Appl. No. 10/803,653 Non-final office action dated January 18, 2008	
	C76	U.S. Appl. No. 10/803,653 Non-final office action dated October 4, 2006	
	C77	U.S. Appl. No. 10/803,653 Notice of Allowance dated May 21, 2009	
	C78	U.S. Appl. No. 10/803,653 Notice of Allowance dated September 14, 2009	
	C79	Abbas, et al. , "Cellular and Molecular Immunology," Saunders, Third Edition, p. 412 (1997)	

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	C80	Alberts, et al. , "Molecular Biology of the Cell," Garland Publications, Third Edition, p. 96 (1994)	
	C81	Avrameas and Ternynck , "Natural Antibodies," in Delves, P., and I. Roitt, The Encyclopedia of Immunology, Second Edition, Academic Press, pp. 1806-1809 (1998)	
	C82	Barbas, et al. , "Assembly of Combinatorial Antibody Libraries on Phage Surfaces: The Gene III Site," Proc. Natl. Acad. Sci. (USA), Vol. 88, pp. 7978-7982 (1991)	
	C83	Barbas, et al. , "Combinatorial Immunoglobulin Libraries on the Surface of Phage (Phabs): Rapid Selection of Antigen Specific Fabs," Methods: Companion Methods Enzymol., Vol. 2, pp. 119 (1991)	
	C84	Beidler, et al. , "Cloning and High Level Expression of a Chimeric Antibody with Specificity for Human Carcinoembryonic Antigen," J. Immunology, Vol. 141, pp. 4053-4060 (1988)	
	C85	Berborowicz and Jaroszewski , "Carcinoembryonic Antigen as an Autoantigen," Immunol. Ser., Vol. 52, pp. 65-83 (1982)	
	C86	Berzofsky, et al. , "Antigen-Antibody Interactions and Monoclonal Antibodies," in Paul, W., Fundamental Immunology, Second Edition, Chapter 12, pp. 332 (see also, Fourth Edition, 1994 (1999) Chapter 4, p. 91)	
	C87	Beste, G., et al. , "Small Antibody-like Proteins with Prescribed Ligand Specificities Derived from the Lipocalin Fold," Sci. USA, Vol. 96, No. 5, pp. 1898-19903, ISSN 0027-8424 (1999) Abstract	
	C88	Boerner, et al. , "Production of Antigen-Specific Human Monoclonal Antibodies From in Vitro-Primed Human (Splenocytes)," J. Immunol. Vol. 147, pp. 86-95 (1991)	
	C89	Breiting, et al. , "A Surface Expression Vector for Antibody Screening," Gene, Vol. 104, pp. 147-153 (1991)	
	C90	Buck , Cell Biology, Vol. 3, pp. 179-188 (1992)	
	C91	Burton, et al. , "A Large Array of Human Monoclonal Antibodies to Type 1 Human Immunodeficiency Virus from Combinatorial Libraries of Asymptomatic Seropositive Individuals," Proc. Natl. Acad. Sci., Vol. 88, pp. 10134-10137 (1991)	
	C92	Casali and Notkins , "Probing the Human [B-cell] Repertoire with EBV: Polyreactive Antibodies and CD5+ B Lymphocytes," Ann. Rev. Immunol., Vol. 7, pp. 513-535 (1989)	

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	C93	Chang, et al. , "Expression of Antibody Fab Domains on Bacteriophage Surfaces: Potential Use of Antibody Selection," J. Immunol., Vol. 1047, pp. 3610-3614 (1991)	
	C94	Cohen, P. L. , "Systemic Autoimmunity," in Paul, W., Fundamental Immunology, Fourth Edition, Lippincott-Raven, p. 1608 (1997).	
	C95	Delves, P.J. , "Autoimmunity," in Delves, P. and I. Roitt, The Encyclopedia of Immunology, Second Edition, Academic Press, p. 292 (1998)	
	C96	Dighiero, et al. , "Naturally Occurring Autoantibodies Against Nine Common Antigens in Human Sera," J. Immunol., Vol. 218, No. 128, pp. 2788-2792 (1982)	
	C97	Fomsgaard, et al. , "Auto-antibodies to Tumor Necrosis Factor in Healthy Humans and Patients with Inflammatory Diseases and Gram-Negative Bacterial Infections," Scand. J. Immunol., Vol. 30, pp. 219-223 (1989)	
	C98	Geysen, H.M., et al. , "A Priori Delineation of a Peptide Which Mimics a Discontinuous Antigenic Determinant," Molecular Immunology, Vol. 23, No. 7, pp. 709-715 (1986)	
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	C100	Golub, E., and Green, D. , "Immunology: A Synthesis," Sinauer Associates, Second Edition, p. 531 (1991)	
	C101	Golub E., et al. , Immunology: A Synthesis, Sinauer Associates, Second Edition, p. 19-25 (1991)	
	C102	Goodnow, et al. , "Altered Immunoglobulin Expression and Functional Silencing of Self-Reactive B Lymphocytes in Transgenic Mice," Nature, Vol. 334, pp. 676-682 (1988)	
	C103	Gram, et al. , "In vitro Selection and Affinity Maturation of Antibodies from a Naïve Combinatorial Immunoglobulin Library," Proc. Natl. Acad. Sci USA, Vol. 89, pp. 3576-3580 (1992)	
	C104	Griffiths, et al. , "Human Anti-Self Antibodies with High Specificity from Phage Display Libraries, EMBO J., Vol. 12, pp. 725-734 (1993)	
	C105	Griffiths, et al. , "Isolation of High Affinity Human Antibodies Directly from Large Synthetic Repertoires," EMBO J., Vol. 13, pp. 3245-3260 (1994)	
	C106	Guilbert, et al. , "Naturally Occurring Antibodies Against Nine Common Antigens in Human Sera," J. Immunol., Vol. 128, pp. 2779-2787 (1982)	

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	C107	Hartley, O. , "The Use of Phage Display in the Study of Receptors and Their Ligands," J. of Receptors and Signal Transduction, Vol. 22, Nos. 1-4, pp. 373-393 (2002)	
	C108	Hartman and Wright , "Identification of Autoantibodies Specific for the Neutrophil Adhesion Glycoproteins CD11b/CD18 in Patients with Autoimmune Disease (Neutroenia," Blood, Vol. 78, pp. 1096-1104 (1991)	
	C109	Hirohata, et al. , "Frequency Analysis of Human Peripheral Blood B Cells Producing IGM-Rheumatoid Factor," J. Immunol., Vol. 145, pp. 1681-1686 (1990)	
	C110	Holness, et al. , Journal of Cell Science, Vol. 107, pp. 2065-2070 (1994)	
	C111	Hoogenboom, et al. , "Building Antibodies from their Genes," Rev. Fr. Transfus. Hemobiol., Vol. 36, pp. 19-47 (1993)	
	C112	Hoogenboom, et al. , "Multi-Subunit Proteins on the Surface of Filamentous Phage: Methodologies for Displaying Antibody (Fab) Heavy and Light Chains," Nucl. Acids Res., Vol. 19, pp. 4133-4137 (1991)	
	C113	Huse , "Combinatorial Antibody Expression Libraries in Filamentous Phage," Chapter 5 of Antibody Engineer, Borrebaeck (ed.), W.H. Freeman and Co. N.Y. (1992)	
	C114	International Search Report of European Patent Application No. 04005419.9 dated August 9, 2004	
	C115	Jacobsson, K., et al. , "Shot-gun Phage Display Mapping of Two Streptococcal Cell-Surface Proteins," Microbial Research, Vol. 152, No. 2, pp. 121-128, ISSN 0944-4013 (1997) Abstract	
	C116	Kettleborough, C.A., et al. , "Humanization of a Mouse antibody by CDR-Grafting: The Importance of Framework Residues on Loop Conformation," Protein Engineering, Vol. 4, No. 7, pp. 773-783 (1991)	
	C117	Klein and Horejsi , "Immunology" [Chapter 20, "immunological Tolerance"], Blackwell Scientific, Second Edition, p. 527 (1997)	
	C118	Koga, et al. , "Mouse-Human Chimeric Monoclonal Antibody to Carcinoembryonic Antigen (CEA): In Vitro and In Vivo Activities," Hybridoma, Vol. 9, pp. 43-56 (1990)	
	C119	Lobel, L.I., et al. , "Filamentous Phage Displaying the Extracellular Domain of the hLH/CG Receptor Bind hCG Specifically," Endocrinology, Vol. 138, No. 3, pp. 1232-1239, ISSN: 0013-7227 (1997) Abstract	

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				Application Number	09/417,478
				Filing Date	October 13, 1999
				First Named Inventor	John McCafferty, et al.
				Group Art Unit	1639
				Examiner Name	Liu, Sue Xu
Sheet	8	of	18	Attorney Docket Number	05569.0004.DVUS07

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	C120	Logtenberg, et al. , "Analysis of the Human Tonsil B Cell Repertoire by Somatic Hybridization: Occurrence of Both "Monospecific" and "Multispecific" (auto) Antibody-Secreting Cells," Eur. J. Immunol., Vol. 17, pp. 855-859 (1987)	
	C121	Lydyard, et al. , "The Antibody Repertoire of Early Human B Cells," Scand. J. Immunol., Vol. 31, pp. 33-43 (1990)	
	C122	Mamula, et al. , "The Specificity of Human Anti-Cytochrome c Autoantibodies that Arise in Autoimmune Disease," J. Immunol., Vol. 144, pp. 1835-1840 (1990)	
	C123	Marks, et al. , "Molecular Evolution of Proteins on Filamentous Phage," J. Biol. Chem., Vol. 267, p. 16007-16010 (1992)	
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	C125	McHeyzer-Williams, et al. , "Clonal Analysis of Autoantibody-Producing Cell Precursors in the Preimmune B Cell Repertoire," J. Immunol., Vol. 141, pp. 4118-4123 (1988)	
	C126	Mullinax, et al. , "Identification of Human Antibody Fragment Clones Specific For Tetanus Toxoid in a Bacteriophage λ Immunoexpression Library," Proc. Natl. Acad. Sci., USA, Vol. 87, pp. 8095-8099 (1990)	
	C127	Nemazee and Burk , "Clonal Deletion of B Lymphocytes in a Transgenic Mouse Bearing Anti-MHC Class I Antibody Genes," Nature, Vol. 377, pp. 562-566 (1989)	
	C128	Neumaier, et al. , "Cloning of the Genes for T84.66, an Antibody that has a High Specificity and Affinity for Carcinoembryonic Antigen, and Expression of Chimeric Human/Mouse T84.66 Genes in Myeloma and Chinese Hamster Ovary Cells," Cancer Research, Vol. 50, pp. 2128-2134 (1990)	
	C129	Nossal, G.V.J. , "Cellular Mechanisms of Immune[ologic] Tolerance," Ann. Rev. Immunol., Vol. 1, pp. 33-62 (1983)	
	C130	Nossal, G.V.J. , "Molecular and Cellular Aspects of Immunologic Tolerance," Eur. J. Biochem., Vol. 202, pp. 729-737 (1991)	
	C131	Persson, et al. , "Generation of Diverse High-Affinity Human Monoclonal Antibodies by Repertoire Cloning," Proc. Natl. Acad. Sci., Vol. 88, pp. 2432-2436 (1991)	

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	C132	Portolano, S., et al. , "A Human Fab Fragment Specific For Thyroid Peroxidase Generated By Cloning Thyroid Lymphocyte-Derived Immunoglobulin Genes in a Bacteriophage Lambda Library", Biochemical and Biophysical Research Communications, Vol. 179, No. 1, pp. 372-377 (1991)	
	C133	Roitt, et al. , Immunology, Second Edition, 1989, Ivan Roitt, et al., Gower Publishing, New York, p. 51 (1989)	
	C134	Ruf., et al. , "Various Expressions of a Unique Anti-Human Thymoglobulin Antibody Repertoire in Normal State and Autoimmune Disease, " Blood, Vol. 78, pp. 1096-1104 (1991)	
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	C136	Svenson, et al. , "IgG Autoantibodies Against Interleukin 1 α in Sera of Normal Individuals," Scand. J. Immunol., Vol. 29,, pp. 489-492 (1989)	
	C137	Tomlinson, et al. , "The Repertoire of Human Germline Vh Segments (Sequences Reveals about Fifty Groups of VH Segments] with Different Hypervariable Loops," J. Mol. Biol., Vol. 227, pp. 776-798 (1992)	
	C138	Ura, et al. , "Studies on Circulating Antibody Against Carcinoembryonic Antigen (CEA) and CEA-like Antigen in Cancer Patients," Cancer Letters, Vol. 25, pp. 283-295 (1985)	
	C139	Waterhouse, et al. , "Combinatorial Infection and in Vivo Recombination: A Strategy for Making Large Phage Antibody Repertoires," Nucl. Acids Res., Vol. 21, pp. 2265-2266 (1993)	
	C140	Weidanz, J.A., et al. , "Display of Functional Alphabets Single-Chain T-Cell Receptor Molecules on the Surface of Bacteriophage," J. Immunol. Methods, Vol. 221, (1-2), pp. 59-76, ISSN 0022-1759 (1998) Abstract	
	C141	Williams, W.V., et al. , "Development of Biologically Active Peptides Based on Antibody Structure," PNAS, Vol. 86, pp. 5537-5541 (1989)	
	C142	Wilson and Stanfield , "Antibody-Antigen Interactions: New Structures and New Conformational Changes," Curr. Opin. Structural Biol., Vol. 4, pp. 857-867 (1994)	
	C143	Winter, et al. , "Making Antibodies by Phage Display Technology," Annu. Rev. Immunol., Vol. 12, pp. 433-455 (1994)	
	C144	Promega Technical Bulletin, printed January 11, 2008, revised December 2006, pGEM-3ZF(+) Vector, 9 pages	
	C145	Promega Technical Bulletin, printed January 11, 2008, revised December 2006, pGEM-3ZF(-) Vector, 9 pages	

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	C146	Stratagene Instruction Manual, printed January 11, 2008, revised 2003, pBluescript II Phagemic Vectors, 37 pages	
	C147	First Amended Complaint, Filed March 8, 2002 - Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (24 pages) (U.S. District Court, District of Columbia)(signed by John S. Skilton, Attorney for Plaintiff.)	
	C148	Cambridge Antibody Technology Limited's Answer to First Amended Complaint, Filed March 22, 2002 - Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia)(signed by Brian H. Corcoran, Attorney for Defendant).	
	C149	Deposition Transcript of David W. Clough, taken April 19, 2002 (Morphosys AG v. Cambridge Antibody Technology Limited, U.S. District Court, Northern District of Illinois, Eastern Division).	
	C150	E.I. du Pont de Nemours v. Cetus Corp., 19 USPQ2d 1174, (DC N.Cal. 1990).	
	C151	OddzOn Products Inc. v. Just Toys Inc., 43 USPQ2d 1641(CAFC 1997).	
	C152	Deposition Transcript of George P. Smith, Ph.D., taken 14 May 2002, Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)	
	C153	Deposition Transcript of Dr. David Chiswell, taken 29 April 2002; Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)	
	C154	Deposition Transcript of Dr. Gregory Paul Winter, taken April 30, 2002; Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)	
	C155	Vol. I - Deposition Transcript of Sean Malcolm Walton, taken 01 May 2002, Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)	
	C156	Vol. II - Deposition Transcript of Sean Malcolm Walton, taken 02 May 2002, Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)	
	C157	Declaration of George P. Smith, Ph.D., Under 37 C.F.R. § 1.132, executed 30 June 1995 (submitted during the prosecution of U.S. Application No. 08/322,352).	
	C158	Declaration of Brian K. Kay, Ph.D., executed 28 June 1998, (submitted during the prosecution of European Appln. No. 91913039.3)	

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	C159	Abstract of George P. Smith, Grant No. 1R01GM41478-01A1, Project Start Date: July 1, 1989, Dept. of Health & Human Services.	
	C160	Smith Grant Application, entitled: "Filamentous Phage Physiology", dated November 1, 1988	
	C161	Northern Telecom Inc. v. Datapoint Corp., 15 USPQ 1321., (CAFC 1990). Letter of Dr. Smith Re: NIH grant proposals, Dated June 27, 1997	
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	C163	Barbas and Lerner "Combinatorial Immunoglobulin Libraries on the surface of phage (Phabs): rapid selection of anti-specific fabs." Methods: a companion to methods in Enzymology Vol. 2 (2): 119-124 (1991).	
	C164	Interlocutory Decision in Opposition Proceedings to the European Patent EP-B-0589877 dated April 15, 2002 (reference number SMW/CP9503921)	
	C165	Notice of Appeal to the European Patent EP-B-0589877 from Dyax Corp., filed Jun. 17, 2002	
	C166	Communication from EPO on Notice of Appeal filed by Dyax, issued October 21, 2002	
	C167	Notice of Appeal to the European Patent EP-B-0589877 from BioInvent Therapeutic AB, filed June 14, 2002	
	C168	Appeal No. T0639/02-334 from BioInvent Therapeutic AB to the European Patent EP-B-0589877, filed August 22, 2002	
	C169	Notice of Appeal to the European Patent EP-B-0589877 from MorphoSys AG filed June 20 2002 and Grounds of the Appeal filed August 22, 2002	
	C170	Notice of Appeal filed June 24, 2002 and Grounds of Appeal filed August 22, 2002 from Cambridge Antibody Technology Limited against the Decision of the Opposition Division	
	C171	Notice of Opposition to the European Patent EP-B-0589877 from BioInvent International AB, filed October 24 2002	
	C172	Document D80 in Appeal No. T0639/02-334: HHS' Freedom of Information Act (FOIA) regulations: table of contents, 5.1, 5.2, 5.3, 5.5, 5.21, 5.22, 5.24, 5.31, 5.32, 5.33, 5.34, 5.35, 5.51, 5.61 and 5.65	
	C173	Document D81 in Appeal No. T0639/02-334: Smith Declaration	
	C174	Document D82 in Appeal No. T0639/02-334: Copy of Grant Application GM 41478 and renewal applications supplied by the DHH	

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	C175	Document D83 in Appeal No. T0639/02-334: Letter dated 26 August 1999 from Cambridge Antibody Technology Ltd in opposition proceedings against EP 0 527 839	
	C176	Document D85 in Appeal No. T0639/02-334: Proprietor's letter of 12 November 1997 and amended claims	
	C177	Document D86 in Appeal No. T0639/02-334: EP 0774 511 A1	
	C178	Document D87 in Appeal No. T0639/02-334: Proprietor's letter of 15 November 2000	
	C179	Document D88 in Appeal No. T0639/02-334: Grounds of Appeal dated 22 August 2002 from present opponent in opposition proceedings against EP 0589 877	
	C180	Document D89 in Appeal No. T0639/02-334: OD's Written Interlocutory Decision in opposition proceedings against EP 0 589 877	
	C181	Document D90 in Appeal No. T0639/02-334: Marvin & Hohn (1969). Bacteriological Rev 33(2), 172-209	
	C182	Document D91 in Appeal No. T0639/02-334: Better et al. (1988). Science 240, 1041-1043	
	C183	Document D92 in Appeal No. T0639/02-334: Sambrook & Russell (2001). Molecular cloning: a laboratory manual 3rd Edition, Cold Spring Harbor Press; particular pages 18.115 to 18.122 "Filamentous phage display"	
	C184	Notice of Opposition to the European Patent EP-B-0589877 from Crucell Holland B.V, filed October 30, 2002	
	C185	Document D13: Communication of the European Office of 28 June 2001	
	C186	Document D17: Vieira and Messing (1987), Methods Enzymol. 153, 3-11	
	C187	Document D27: Details of Smith Grant application and second and third year renewals thereof as provided by the DHHS in response to a Freedom to Information Act (FOIA) request	
	C188	Notice of Opposition to the European Patent EP-B-0589877 from Dyax Corp.	
	C189	Document D1: EPO register print-out for the patent application with file history information	
	C190	Document D3: Claims filed with the divisional application	
	C191	Document D7: Pluckthun and Skerra, "Expression of functional antibody Fv and Fab fragments in Escherichia coli," Methods in Enzymology, Vol. 178 (1989), pages 497-515	

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	C192	Document D8: Hoogenboom et al., "Multi-subunit proteins on the surface of filamentous phage: methodology for displaying antibody (Fab) heavy and light chains," Nucleic Acids Research, Vol 19, No. 15 (1991), pages 4133-4137.	
	C193	Notice of Opposition to the European Patent EP-B-0589877 from MorphoSys, filed October 30 2002	
	C194	Document D1: Genentech, US Patent Application 07/621,667, priority document to EP 92902109.5	
	C195	Opposition to European patent EP-B-0589877, cited opposition document D2: Nelson et al. "Filamentous phage DNA cloning vectors: a noninfective mutant with a nonpolar deletion in gene III", Virology 108: 338-350 (1981)	
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	C199	Opposition to European patent EP-B-0589877, cited opposition document D9: De La Cruz et al. "Immunogenicity and epitope mapping of foreign sequences via genetically engineered filamentous phage", J. Bio. Chem. 263: 4318-4322 (1988)	
	C200	Opposition to European patent EP-B-0589877, cited opposition document D15: Parmley and Smith "Filamentous fusion phage cloning vectors for the study of epitopes and design of vaccines", Adv. Exp. Med. Biol. 251: 215-218 (1989)	
	C201	Opposition to European patent EP-B-0589877, cited opposition document D18: Chaudhary et al. "A recombinant immunotoxin consisting of two antibody variable domains fused to Pseudomonas exotoxin", Nature 339: 394-397 (1989)	
	C202	Opposition to European patent EP-B-0589877, cited opposition document D23: US 517 659 "Affymax priority document", entitled "Recombinant Library Screening Methods", priority document filed 1 May 1990 for EP-A-0 527 839 (Article 54(3) EPC)	

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	C203	Opposition to European patent EP-B-0589877, cited opposition document D26: Scott and Smith "Searching for peptide ligands with an epitope library", Science 249: 386-389 (1990)	
	C204	Opposition to European patent EP-B-0589877, cited opposition document D27: Devlin et al. "Random peptide libraries: a source of specific protein binding molecules", Science 249: 404-405 (1990)	
	C205	Opposition to European patent EP-B-0589877, cited opposition document D37: Markland et al. "Design, construction and function of a multicopy display vector using fusions to the major coat protein of bacteriophage M13", Gene 109: 13-19 (1991)	
	C206	Opposition to European patent EP-B-0589877, cited opposition document D38: Roberts et al. "Directed evolution of a protein: selection of potent neutrophil elastase inhibitors displayed on M13 fusion phage", Proc. Natl. Acad. Sci. USA 89: 2429-2433 (1992)	
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	C208	Opposition to European patent EP-B-0589877, cited opposition document D41: Kay et al. "Phage display of peptides and proteins", A laboratory Manual (1996) (Cover page and Foreword enclosed)	
	C209	Opposition to European patent EP-B-0589877, cited opposition document D42: Proba et al. "A natural antibody missing a cysteine in VH: consequences for thermodynamic stability and folding", J. Mol. Biol. 265: 161-172 (1997)	
	C210	Opposition to European patent EP-B-0589877, cited opposition document D43: Proba et al. "Antibody scFv fragments without disulfide bonds made by molecular evolution", J. Mol. Biol. 275: 245-253 (1998)	
	C211	Opposition to European patent EP-B-0589877, cited opposition document D44: Letter of 18 November 1992 to EPO from Kilburn Strode in prosecution of EP-B-0 349 578	
	C212	Opposition to European patent EP-B-0589877, cited opposition document D45: Page 3 of EPO letter of 19 October 1993 addressed to Plougmann, Ole (c/o Plougmann Vingtoft A/S) in prosecution of EP-B-0 768 377	

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/417,478
				Filing Date	October 13, 1999
				First Named Inventor	John McCafferty, et al.
				Group Art Unit	1639
				Examiner Name	Liu, Sue Xu
Sheet	15	of	18	Attorney Docket Number	05569.0004.DVUS07

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	C213	Opposition to European patent EP-B-0589877, cited opposition document D46: Letter of 22 September 1994 to EPO from Plougmann & Vingtoft in prosecution of EP-B-0 768 377	
	C214	Opposition to European patent EP-B-0589877, cited opposition document D47: Extract from OD Decision in opposition proceedings against EP-B-0 201 184, (1995)	
	C215	Opposition to European patent EP-B-0589877, cited opposition document D48: Letter of 14 February 1996 to EPO from Hepworth, Lawrence, Bryer & Bizley in prosecution of EP-A-0 527 839, 1996	
	C216	Opposition to European patent EP-B-0589877, cited opposition document D49: the Boards of Appeal of the European Patent Office decision of 8 May 1996, case number T694/92 – 3.3.4	
	C217	Opposition to European patent EP-B-0589877, cited opposition document D50: Extract from opposition proceeding against EP-B-0 349 578 (1996)	
	C218	Opposition to European patent EP-B-0589877, cited opposition document D51: Extract from OD Decision in proceedings against EP-B-0 349 578 (1998)	
	C219	Opposition to European patent EP-B-0589877, cited opposition document D53: Declaration of professor sir Aaron Klug, Ph.D. with exhibits, (23 June 1998)	
	C220	Opposition to European patent EP-B-0589877, cited opposition document D54: preprint of paper by Scott and Smith submitted to Science, date of availability to public unproven	
	C221	Opposition to European patent EP-B-0589877, cited opposition document D55: Smith grant application, date of availability to public unproven	
	C222	Opposition to European patent EP-B-0589877, late filed document D56: claim for infringement of 24 September 1998, from Cambridge Antibody Technology Limited to EPO	
	C223	Opposition to European patent EP-B-0589877, late filed document D58: McConnell et al. "Constrained peptide libraries as a tool for finding mimotopes", Gene 151: 115-118 (1994).	
	C224	Opposition to European patent EP-B-0589877, late filed document D59: two chapters of "Lambda II" (eds. Hendrix et al.) Cold Spring Harbour Laboratory, Cold Spring Harbour, New York, 1983: "A Beginner's Guide to Lambda Biology" (Arber) (pp. 381-395) and "Tail Assembly and Injection" (Katsura)(pp. 331-346).	

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	C225	Opposition to European patent EP-B-0589877, late filed document D60: Parmley & Smith "Filamentous fusion phage cloning vectors for the study of epitopes and design vaccines", Adv. Exp. Med. Biol. 251: 251-8 (1989). The document was not admitted to the proceedings.	
	C226	Opposition to European patent EP-B-0589877, late filed document D63: Declaration of William D. Huse, MD, Ph.D. (17 August 1999). The document was not admitted to the proceedings.	
	C227	Opposition to European patent EP-B-0589877, late filed document D66: Crissman & Smith, "Gene-III protein of filamentous phages: evidence for a carboxyl-terminal domain with a role in morphogenesis", Virology 132: 445-455 (1994).	
	C228	Opposition to European patent EP-B-0589877, late filed document D67: Declaration of Dr. Viia Valge-Archer (3 May, 2000)	
	C229	Opposition to European patent EP-B-0589877, late filed document D68: Declaration of Dr. Hiroshi Ueda (3 May, 2000)	
	C230	Opposition to European patent EP-B-0589877, late filed document D69: First Declaration of Dr. Rachel B. Kent (4 February, 2000). The document was objected to by patentees.	
	C231	Opposition to European patent EP-B-0589877, late filed document D71: letter of patentees filed at USPTO on 16 July 1996. The document was objected to by patentees.	
	C232	Opposition to European patent EP-B-0589877, late filed document D72: letter of patentees filed at USPTO on 6 March 1997. The document was objected to by patentees.	
	C233	Opposition to European patent EP-B-0589877, late filed document D73: Opposition by CAT against EP-B-0 564 531. The document was objected to by patentees.	
	C234	Opposition to European patent EP-B-0589877, late filed document D74: Decision of EPOD on EP-B-0 201 184. The document was objected to by patentees.	
	C235	Opposition to European patent EP-B-0589877, late filed document D75: Declaration of Prof. Andreas Plückhün (3 May, 2000). The document was objected to by patentees.	
	C236	Opposition to European patent EP-B-0589877, late filed document D76: Notice of grant awarded to Smith grant application. The document was objected to by patentees.	

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	C237	Opposition to European patent EP-B-0589877, late filed document D77: Endemann and Model "Location of filamentous phage minor coat proteins in phage and in infected cells", J. Mol. Biol. 250: 496-506 (1995). The document was objected to by patentees.	
	C238	Opposition to European patent EP-B-0589877, late filed document D79: Extract from MorphoSys website.	
	C239	Opposition to European patent EP-B-0589877, late filed document D80: Written Decision dated 26 May 2000 to revoke EP-B-0436597.	
	C240	Opposition to European patent EP-B-0589877, late filed document D81: 2nd Declaration of Dr. Viia Valge-Archer (31 May, 2000).	
	C241	Complaint filed 4/23/99	
	C242	First Amended Complaint filed 5/6/99	
	C243	Defendant Cambridge Antibody Technology, Limited's Motion to Dismiss plaintiff MorPhosys Ag's Complaint filed 06/8/99	
	C244	Response of Plaintiff MorphoSys Ag to Cambridge Antibody Technology Ltd's First Set of Interrogatories and Request for Production of Documents and Things filed 10/18/99	
	C245	Plaintiff's Supplemental Answer to Interrogatory No. 2, Case No. 1:99CF01012, dated December 7, 1999	
	C246	Response of Plaintiff-MorphoSys AG to Cambridge Antibody Technology Ltd.'s First Set of Interrogatories and Request for Production of Documents and Things filed 3/27/00	
	C247	Response of Plaintiff MorphoSys AG to Cambridge Antibody Technology Ltd.'s Second set of Interrogatories filed 7/3/00	
	C248	Response of MorphoSys AG to Cambridge Antibody Technology's Third Set of Interrogatories filed 8/14/00	
	C249	Declaration of Edward S. Golub, Ph.D. in Support of MorphoSys Motion for Partial Summary Judgment of Noninfringement filed 9/1/00	
	C250	Edward S. Golub, Ph.D. Curriculum Vitae, Case No. 1:99CV01012, dated June 30, 2000	
	C251	Expert Report of Edward S. Golub, Ph.D. dated 6/00 (with Exhibit 1) E. S. Golub Curriculum Vitae-Exhibit 2 E.S. Golub Validity Report and Exhibit 3 Declaration of E.S. Golub regarding Immunological Concepts	
	C252	Rebuttal Expert Report of Edward S. Golub, Ph.D., Case No. 1:99CV01012	

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	C253	Reply of Edward S. Golub, Ph.D. to Rebuttal Expert Reports of Edward P. Cohen, M.D. and Ronald II, Jackson, Ph.D. dated 08/01/00	
	C254	Declaration of Carlos F. Barbas III, Ph.D. in Support of MorphoSys Motion for Partial Summary Judgment of Noninfringement filed 9/1/00	
	C255	Carlos F. Barbas III, Ph.D. Curriculum Vitae	

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